

(12)

VLSI ARRAY PROCESSOR
R&D STATUS REPORT

DARPA ORDER NO.4001

CONTRACT NO. N00014-80-C-0693

CONTRACT DATE: August 1, 1980

PRINICPAL INVESTIGATOR: Ed Greenwood

PHONE: (602) 949-3394

DTIC
ELECTE
AUG 24 1982
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JULY 19, 1982

REPORTING PERIOD - March 31, 1982 thru June 30, 1982

APPROVED BY:

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The Arithmetic Processor Unit (APU) database design check was completed. Minor design rule violations and design improvements were accomplished.

The APU mask set has been fabricated and checked. Initial checking of all mask layers revealed a design rule problem in one layer. That layer was corrected, refabricated and checked out. The mask set has been delivered to the chip fabrication area. The fabrication process has been initiated.

[All work on the Array Processor Demonstration System (APDS) has been suspended at CHI until the additionally requested funding was received. That funding has been authorized and CHI will begin work on the APDS in July.

The following activities are planned in the following quarter:

- 1) Complete fabrication of the first lot of VLSI APU devices.
- 2) Complete integration and check-out of the APDS simulator.
- 3) Complete integration and check-out of the APU breadboard.
- 4) Verify the VLSI APU wafer tests with the APU breadboard.
- 5) Complete check-out of the APDS using the APU breadboard.

No technical problems are foreseen at this time.

A funds expenditure report is attached.



Accession For

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Date Prepared July 13, 1982
Contract No. N00014-80-C-069
Contractor Motorola Inc.

Summary: Work Package Title Array Processor
Report Month: June 1982

FUND EXPENDITURE REPORT

Column A			Column B	Column C	Column D			Column E	Column F
ORIGINAL PROPOSAL			Latest Accepted Revised Proposals (if any)	Reporting Month Expenditures	Cumulative Expenditures To Date			Cost Complete estimate	Latest Cost Estimate (D2 plus E)
Type No. of Hours@	Hourly Rate	Dollar Total			D1 Total Man Hours	D2 Dollar Value	D3* Percentage Dollar Value
I. DIRECT LABOR									
Total Direct Labor		161,363			13,926	210,015	130.2	45,993	256,008
Overhead		155,230				199,990	128.2	44,787	244,777
Total direct labor & O'Head		316,593				410,005	129.5	90,780	500,785
2. MATERIALS & PARTS									
		500,256				393,281	78.6	194,493	587,774
3. TRAVEL EXPENSE									
		20,120				10,626	52.8	11,981	22,607
4. COST OF MONEY									
		9,900				26,140	264.0	2,910	29,050
5. GEN & ADMIN									
		156,938				158,175	100.8	48,823	206,998
6. OTHER COSTS									
TOTAL COSTS		86,193				76,237	88.4	5,070	81,307
		1,090,000				1,074,464	98.6	354,057	1,428,521
7. FIXED FEE (OR PROFIT)									
		99,000				97,589	98.6	1,411	99,000
TOTAL CONTRACT PRICE									
		1,189,000				1,172,053	98.6	355,468	1,527,521
***OUTSTANDING COMMITMENTS									
TOTAL COMMITMENTS AND EXPENDITURES									
		1,189,000				1,172,053	98.6	355,468	1,527,521

*Based on original contract funding limitations

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